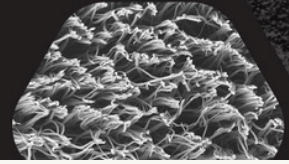


Build composites from emissions.



Carbon simplified.

At Carbonova, we rebuild emissions into advanced carbon nanomaterials that make composites lighter, stronger, and more sustainable —accelerating the shift to ecofriendly plastics.

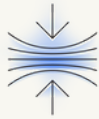


Our product



>60%

Increased elongation to break



>15%

Increased ultimate tensile strength



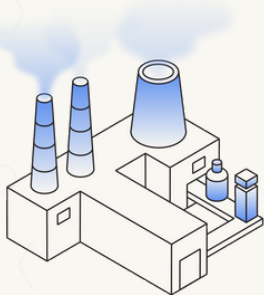
>2.5

Times higher toughness over comparable nano carbon filled composites

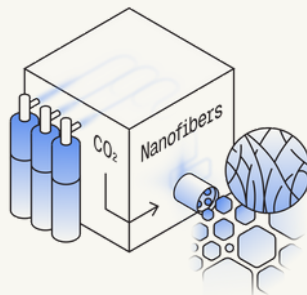


1.5 tonnes

CO₂ reduction (avoidance) for every tonne of plastic



Manufacturing facilities
GHG captured at site

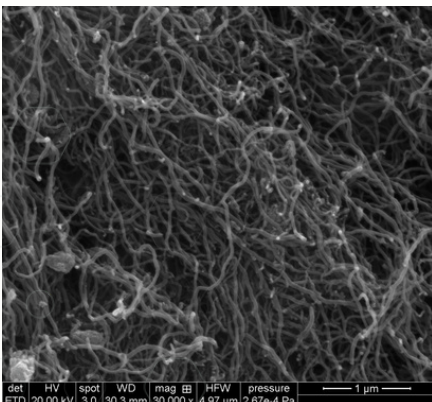


Our technology
Converts GHG to advanced carbon nanomaterials



Carbon reinforced plastics
Our material integrates into your product for enhanced performance

Properties



Easy integration
Dispersed through conventional masterbatch production

Production runtime reduction
Lower viscosity and easier mold filling

Luxury jet-black finish
Maintains high aesthetic quality and texture

Increased thermally stability
Decreased polymer degradation at elevated temperature

Increased conductivity
Improved electrostatic discharge properties

Up-to 100% recycled content
Increased recycled content without performance compromise

More about our product

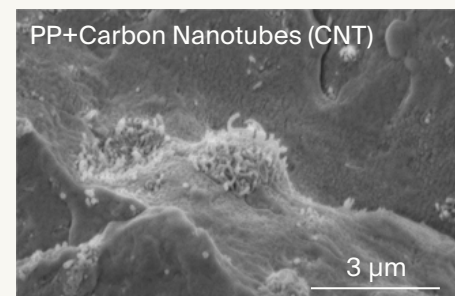
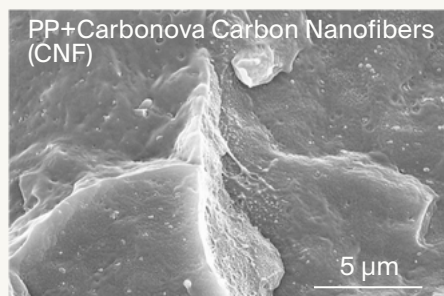
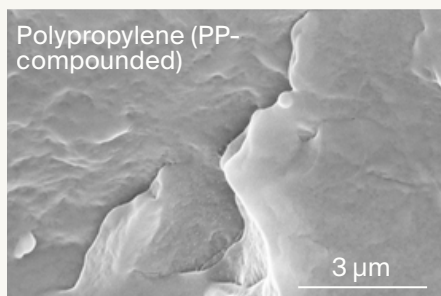
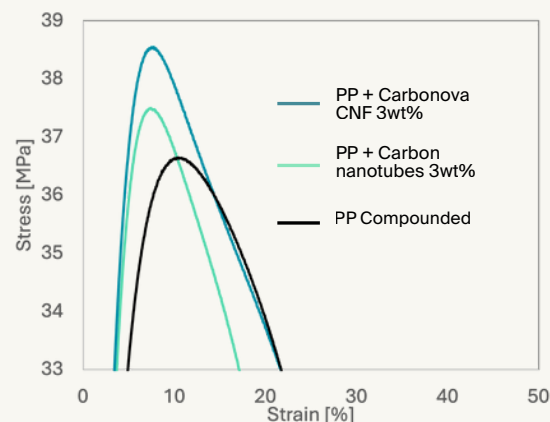
Ease of dispersion

Carbonova CNF **disperses easily** with standard polymer mixing equipment

No visible clusters of CNF within polypropylene mix

Increases tensile strength and Young's Modulus

Low compromise to elongation and ductility



Thermal stability enhancement

Increases the PCR thermal stability

Adding 1-10 wt% CNF **delays polymer breakdown by 50-65°C**

Eliminates the need to over design parts at elevated temperature

Post consumer recycled Polypropylene (PCR)	T Onset (°C)	Change in T Onset (°C)
PCR Compounded	374	N/A
0.1 wt% CNF in PCR	387	13
1 wt% CNF in PCR	425	51
3 wt% CNF in PCR	431	57
10 wt% CNF in PCR	439	65

Enhanced flow properties

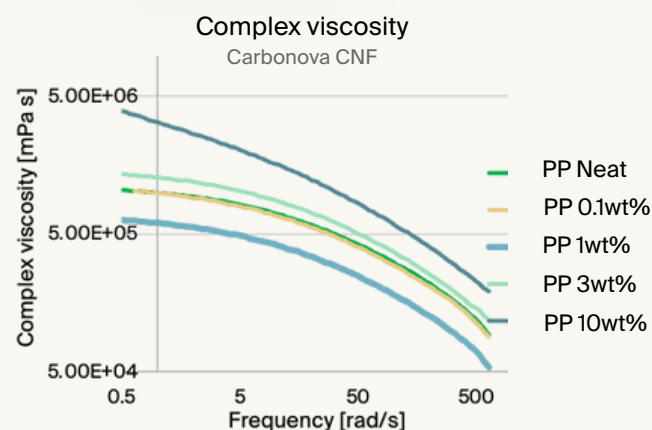
Reduced melt viscosity at lower CNF loadings

Increased flowability into molds

Up to **20% reduction** in cycle fill rates and **10% reduction** in total cycle time

Improved surface quality & finishes

Ideal for thin wall packaging and small/complex parts



Let's reshape the climate narrative, together — reach out today.

Follow for updates



carbonova.com

(587) 358-0927

info@carbonova.com

Based in Calgary, AB